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Declassification Review by NGA

OUT61839

T O P S E C R E T [redacted]

1967 APR 25 00 12Z

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25 APR 1967

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SUBJECT: EVALUATION OF T-35 TRACKERS USED ON MISSION HT 67-110

1. CAMERA H7 (LEFT) AND H8 (RIGHT) WERE USED ON MISSION HT 67-110 FLOWN ON 14 MARCH 1967. PROCESSING WAS ACCOMPLISHED IN THE FIELD. THIS IS THE FIRST MATERIAL EVALUATED WITH THE T-35 CAMERA IN A DUAL MOUNT.

2. THE PHOTOGRAPHY IS GOOD AND PROVIDES HORIZON TO HORIZON COVERAGE ACROSS THE FLIGHT LINE AND FIVE (5) NAUTICAL MILES PER EXPOSURE ALONG THE FLIGHT LINE AT VEHICLE NADIR. THE CAMERAS ARE MOUNTED TO RECORD APPROXIMATELY 25NM CROSSTRACK AND 4.5 NM ALONG TRACK OVERLAP. THERE IS APPROXIMATELY 12 FOOT GROUND RESOLUTIONS AT VEHICLE NADIR.

3. AN EVALUATION AND ANALYSIS OF THE NEGATIVE INDICATE THE FOLLOWING:

A. THE LEFT CAMERA (H7) CONTAINS DOUBLE IMAGERY DISPLACED ACROSS THE FLIGHT LINE BY APPROXIMATELY 3.0 INCHES ON ALTERNATE FRAMES THROUGHOUT THE MISSION. THE SECOND IMAGE IS DISPLACED TO THE LEFT AND HAS A TRAPAZOIDAL CONFIGURATION. THE MAJOR BASE EXTENDS THE WIDTH OF THE LEFT EDGE OF THE FORMAT (1.0 INCH). THE SIDES OF THE TRAPAZOID EXTEND 5.2 INCHES INTO THE FORMAT WITH THE MINOR BASE AT THE JUNCTION OF THE RECORDED WINDOW FRAME. AFTER

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FRAME 104 THE SIDES OF THE TRAPAZOID EXTEND 3.7 INCHES INTO THE FORMAT.

B. STARTING AT FRAME 272 THE FOLLOWING SEQUENCE OCCURS IN THE MATERIAL FROM CAMERA H7:

FRAME

272 DOUBLE EXPOSURE

18 FEET OF BLANK FILM

273 NO DATA CHAMBER RECORDINGS

274 DOUBLE EXPOSURE

275 GOOD

276 DOUBLE EXPOSURE

12 FEET OF BLANK FILM

277 NO DATA CHAMBER RECORDINGS

278 DOUBLE EXPOSURE

279 GOOD

280 DOUBLE EXPOSURE

9 FEET OF BLANK FILM

281 NO DATA CHAMBER RECORDINGS

282 DOUBLE EXPOSURE

THIS PATTERN CONTINUES TO FRAME 295 WHICH IS TOTALLY BLACK EXCEPT WHERE OBSTRUCTIONS SHIELD THE FORMAT (SEE PARA D). FRAMES 296 THROUGH 253 (LAST FRAME) ARE NORMAL WITH THE EXCEPTION THE ALTERNATE FRAMES CONTAIN DOUBLE EXPOSURES.

C. CAMERA H7. THERE IS A MINUS DENSITY LINE IN THE FORMAT 0.15 INCHES FROM AND PARALLEL TO THE EDGE ADJACENT TO THE CLOCK.

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THE MINUS DENSITY APPEARS TO BE CAUSED BY FOREIGN MATTER IN THE SLIT APERTURE.

D. APPROXIMATELY 37 PERCENT OF THE IMAGERY FROM BOTH CAMERAS IS OBSCURRED BY A PART OF THE VEHICLE. THE FORMAT FROM BOTH CAMERAS IS RECORDED AS A CIRCULAR SEGMENT.

4. IT IS SUGGESTED THAT CONSIDERATION BE GIVEN TO THE FOLLOWING RECOMMENDATIONS:

A. CUT A NOTCH ON BOTH RAILS TO IDENTIFY CAMERA NADIR.

B. PLACE R OR L IN THE DATA RECORD TO IDENTIFY THE RIGHT AND LEFT CAMERAS.

C. LOAD THE NEGATIVES AND DUPE POSITIVES ON THE SPOOLS SO THEY ARE READILY ADAPTABLE TO THE 35MM VIEWER FURNISHED FOR THIS PURPOSE. NEGATIVES SHOULD BE PLACED ON THE SPOOL EMULSION IN, HEADS OUT, WITH THE EDGE OF THE FILM CONTAINING THE CLOCK NEARER THE FLANGE WITH THE KEYWAY. LOOKING AT THE FLANGE WITH THE KEYWAY THE SPOOL WILL TURN COUNTERCLOCKWISE AS THE FILM IS REMOVED FROM THE SPOOL. THE DUPE POSITIVE SHOULD BE PLACED ON THE SPOOL EMULSION OUT.

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--END OF MESSAGE--

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